

## PENDING CLAIMS AS AMENDED

✓ Please amend the claims as follows:

1. (Currently amended): In a wireless communication system having a base station controller and a plurality of base stations, a method comprising:

segmenting a message into a plurality of segments;

dividing the segments into a plurality of fragments; and

transmitting the fragments[.] ;

receiving a retransmission request for a first segment of the plurality of segments;

if segmentation is active for retransmission requests, retransmitting the first segment; and

if segmentation is inactive for retransmission requests, retransmitting the plurality of segments in response to the request.

2. (Cancelled)

3. (Original): The method as in claim 1, further comprising:  
applying a segment parameter to each segment.

4. (Original): The method as in claim 1, further comprising:  
applying a segment indicator to each fragment.

5. (Currently Amended): In a wireless communication system having a base station controller and a plurality of base stations, a [base] mobile station[, ] comprising:

means for building segments of a message from a plurality of transmitted frames;

means for identifying a missing segment of the message; [and]

means for requesting a retransmission of the missing segment[.]; and

means for extracting a segmentation indicator, wherein the segmentation indicator indicates if segmentation is active for retransmission requests.

6. (Currently Amended): The [base] mobile station as in claim 5, further comprising:  
means for segmenting a message to form a plurality of segments;  
means for fragmenting the segments to form a plurality of fragments;  
means for transmitting the plurality of fragments; and  
means for retransmitting one of the plurality of fragments.
7. (Currently amended): A method for receiving transmissions in a wireless communication system, comprising:  
receiving a transmission frame having a plurality of segments, each segment having a plurality of fragments;  
determining if any of the plurality of segments is missing;  
if no segment is missing, reconstructing the message;  
determining if segmentation is active for retransmission; and  
if a segment is missing and segmentation is active, requesting retransmission of the missing segment.
8. (Original): The method as in claim 7, further comprising:  
processing fragments of the transmission frame.
9. (Original): The method as in claim 7, further comprising:  
determining an end of a segment; and  
reconstructing the segment.
10. (Original): The method as in claim 7, further comprising:  
if a segment is missing, sending a negative acknowledge message to the transmitter of the transmission frame.

11. (Original): The method as in claim 7, further comprising:  
if no segment is missing; sending an acknowledge message to the transmitter of the  
transmission frame.
12. (Original): The method as in claim 7, further comprising:  
determining a start of a segment; and  
storing information in a buffer from the start of the segment.
13. (Original): The method as in claim 12, further comprising:  
if the buffer is not empty at the start of a segment, flushing the buffer.
14. (Original): The method as in claim 13, further comprising:  
if a fragment is not a start of segment and the buffer is empty, marking the fragment as  
missing.
15. (Currently amended): A wireless apparatus, comprising:  
receiver for receiving a plurality of transmission frames;  
segment extraction unit coupled to the receiver [fragment extraction unit], adapted to  
identify and reconstruct segments within a transmission frame according to  
segment indicators associated with segments, wherein at least one of the segment  
indicators indicates when segmentation is active for retransmission requests; and  
message reconstruction unit coupled to the segment extraction unit, adapted to determine  
any missing segment within a message and to request retransmission of the  
missing segment.
16. (Currently amended): A computer data signal embodied on a carrier wave, characterized  
by:  
a plurality of segments, each segment comprising:  
a segment parameter;

a segment indicator indicating if segmentation is active for retransmission requests;

and

a plurality of fragments.

17. (Cancelled)

18. (Cancelled)

19. (Original): The computer data signal as in claim 16, wherein the segment error rate is given as:

$$SER=1-(1-FER)^x$$

wherein FER is a frame error rate of the computer data signal, and x is the number of fragments in the plurality of fragments.

20. (Original): The computer data signal as in claim 19, wherein the message error rate is given as:

$$MER=1-(1-SER)^k$$

wherein k is the number of segments in the plurality of segments.

21. (New): The method as in claim 4, wherein the segment indicator indicates if segmentation is active for retransmission requests.

22. (New): An apparatus adapted for operation in a wireless communication system, comprising:

means for segmenting a message into a plurality of segments;

means for dividing the segments into a plurality of fragments;

means for transmitting the fragments;

means for receiving a retransmission request for a first segment of the plurality of segments;

means for retransmitting the first segment if segmentation is active for retransmission requests; and

means for retransmitting the plurality of segments in response to the request if segmentation is inactive for retransmission requests.

23. (New): The mobile station as in claim 22, wherein segment retransmission requests for a segment or a portion of a message are supported for active segmentation, and wherein all segments of the message are retransmitted for inactive segmentation.

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